

Attorney's Docket
99 P 7358 US 01

Patent Application
09/884,415

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IN THE CLAIMS

For the convenience of the Examiner, all pending claims of the present Application are shown below whether or not an amendment has been made.

1-12 (Withdrawn)

13. (Amended) A method for conserving power in a wireless communication system, comprising:

providing communication between a first and second component;

transmitting an initial signal from the first component to the second component at a first power level;

receiving the initial signal from the first component at the second component;

determining ~~a line quality for the initial signal~~ an initial signal quality at the second component;

determining a communication strength for the initial signal at the second component; and

transmitting from the second component to the first component a request for the first component to transmit a subsequent signal at a second power level, the second power level less than the first power level, when the ~~line quality for the initial signal is superior to a pre-determined threshold~~ initial signal quality is higher than a pre-determined signal quality and the communication strength is greater than a specified range.

14-15 (Withdrawn)

16. (Original) The method of Claim 13, the first component comprising a mobile unit and the second component comprising a base unit.

17. (Original) The method of Claim 13, the first component comprising a base unit and the second component comprising a mobile unit.

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18. (Amended) The method of Claim 13, determining ~~a line quality for the initial signal~~ an initial signal quality comprising determining a plurality of successive line quality indicators and summing consecutive line quality indicators over a pre-determined period of time.

19. (Amended) The method of Claim 13, further comprising:

determining a power level for the initial signal at the second component, the power level comprising one of a maximum power level and at least one non-maximum power level; and

transmitting from the second component to the first component a request for the first component to transmit a subsequent signal at the maximum power level when the ~~line quality for the initial signal is inferior to the pre-determined threshold~~ initial signal quality is lower than the pre-determined signal quality and the first power level is a non-maximum power level.

20. (Previously added) The method of Claim 19, further comprising:

incrementing an attempt counter at the second component when a request is transmitted for the first component to transmit a subsequent signal at the maximum power level; and

determining a power level for the initial signal comprising determining a value of the attempt counter.

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21. (Amended) A system for conserving power in a wireless communication system, comprising:

a first component;

a second component for providing wireless communication with the first component and for transmitting an initial signal to the first component at a first power level;

an error detector for the first component, the error detector for determining a line quality for the initial signal; and

the first component operable to determine a power level for the initial signal, the power level comprising one of a maximum power level and at least one non-maximum power level and to transmit a signal to the second component requesting the second component to transmit a subsequent signal at the maximum power level when ~~the line quality for the initial signal is inferior to a pre-determined threshold~~ initial signal quality is lower than a pre-determined signal quality and the first power level is a non-maximum power level.

22. (Previously added) The system of Claim 21, the first component comprising a mobile unit and the second component comprising a base unit.

23. (Previously added) The system of Claim 21, the first component comprising a base unit and the second component comprising a mobile unit.

24. (Amended) The system of Claim 21, the error detector operable to determine a ~~line quality for the initial signal~~ initial signal quality by determining a plurality of successive line quality indicators.

25. (Amended) The system of Claim 24, further comprising a slow hop counter for summing consecutive line quality indicators over a pre-determined period of time, the error detector further operable to determine ~~a line quality for the initial signal~~ initial signal quality by determining a value of the slow hop counter.

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26. (Amended) The system of Claim 21, the first component further operable to determine a communication strength for the initial signal and to transmit a signal to the second component requesting the second component to transmit a subsequent signal at a second power level, the second power level less than the first power level, when the ~~line quality for the initial signal is superior to the pre-determined threshold~~ initial signal quality is higher than the pre-determined signal quality and the communication strength is greater than a specified range.

27. (Previously added) The system of Claim 21, further comprising:
an attempt counter for the first component, the attempt counter for indicating whether the second component is transmitting at the maximum power level; and
the first component operable to determine a power level for the initial signal by determining a value of the attempt counter.

28. (Previously added) A method for conserving power in a wireless communication system, comprising:
providing communication between a first and second component;
receiving an initial signal from the first component at the second component, the initial signal transmitted from the first component at a first power level;
determining a plurality of successive line quality indicators for the initial signal at the second component;
determining a line quality for the initial signal at the second component by summing consecutive line quality indicators over a pre-determined period of time; and
transmitting from the second component to the first component a request for the first component to transmit a subsequent signal at a second power level, the second power level based on the line quality for the initial signal.

29. (Previously added) The method of Claim 28, the first component comprising a mobile unit and the second component comprising a base unit.

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30. (Previously added) The method of Claim 28, the first component comprising a base unit the second component comprising a mobile unit.

31. (Amended) The method of Claim 28, further comprising:

determining a communication strength for the initial signal at the second component; and

transmitting from the second component to the first component a request for the first component to transmit a subsequent signal at the second power level, the second power level less than the first power level, when the ~~line quality for the initial signal is superior to a pre-determined threshold~~ initial signal quality is higher than a pre-determined signal quality and the communication strength is greater than a specified range.

32. (Amended) The method of Claim 28, further comprising:

determining a power level for the initial signal at the second component, the power level comprising one of a maximum power level and at least one non-maximum power level; and

transmitting from the second component to the first component a request for the first component to transmit a subsequent signal at the second power level, the second power level comprising the maximum power level, when the initial signal quality is less than a pre-determined signal quality ~~line quality for the initial signal is inferior to a pre-determined threshold~~ initial signal is inferior to a pre-determined threshold and the first power level is a non-maximum power level.

33. (Previously added) The method of Claim 32, further comprising:

incrementing an attempt counter at the second component when a request is transmitted for the first component to transmit a subsequent signal at the maximum power level; and

determining a power level for the initial signal comprising determining a value of the attempt counter.

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